5

Mobile Computing

Overview	74
Industrial Tablet PC	75
Industrial PDA	79
In-Vehicle Computer	82

Mobile Computing

Tablet PC

With a focus on ergonomic design and features, Anewtech tablet PC offers versatility in application and field-proven durability.

Product Family: Semi-Rugged Tablet PC | Rugged Tablet PC | Mobile Clinical Assistant | Infotainment Tablet PC

Industrial PDA / Handheld Terminal

Industrial PDA or habdheld devices brings realtime mobile computing and cost-effective mobility in one customizable, robust package.

Product Family: Industrial PDA | Rugged Handheld Terminal | Retail Handheld Terminal

In-Vehicle PC

Raising the bar for premier in-vehicle infotainment systems, the vehicle PC series optimize user comfort and the power of sophisticated navigation technologies for your mobile work fleet.

Product Family: Vehicle Mounted PC | Vehicle Tracking Terminal

Mobile Computing Solutions

Rugged Tablet PC

Rugged

Wireless Communication

Ergonomic

Sunlight Readable

GPS 3G Wi-Fi Bluetooth

Features

- 8”, 10.4” and 12.1” High performance Intel® Core i and low power Intel® Atom platform
- Optional resistive sunlight readable touchscreen for better viewability
- 6 Cell, 5200 mAh Li-Lon battery pack.
- Optional 2600 mAh(11.1V) battery capacity can extend half of its original operating time.

Platform	8.4”	10.4”	12.1”
IA83 Series (Intel® Atom N270)	N/A	WM-R10IA8M-RTU1GP WM-R10IA8M-RTT2GP	WM-R12IA8M-RTM7GP
I981 Series (Intel ® Atom Z530)	WM-R08I98M-RTU1GP	N/A	N/A
I88M/ I881 Series (Intel ® Core 2 Duo U7500)	WM-R08I88M-RTU1GP (by customer requset)	WM-R10I88M-RTU1GP WM-R 10I88M-RTT2GP	WM-R12I88M-RTM7GP
ID80/ID83 Series (Intel ® Atom N2600)	WM-R08ID8M-RTU1GP	WM-R10ID8M-RTU1GP WM-R10ID8M-RTT2GP	WM-R12ID8M-RTM7GP
IS80 Series (Intel ® Core i5/i7)	N/A	WM-R10IS8M-RTU1GP WM-R10IS8M-RTT2GP	WM-R12IS8M-RTM7GP

Mobile Computing

Rugged Tablet PC

Model	WM-R08ID8M-RTU1GP	WM-R10IS8M-RTT2GP	WM-R10IA8M-RTT2GP	WM-R12I88M-RTM7GP
Display Specification				
Size	8.4"	10.4"	10.4"	12.1"
Resolution	800x600	1024x768	1024x768	1024x768
Brightness	350 (typ.)	350 (typ.)	350 (typ.)	500(typ.)
Touch	4 Wire Resistive	4 Wire Resistive	4 Wire Resistive	4 Wire Resistive
Contrast Ratio	400:1 (typ.)	1200:1 (typ.)	1200:1 (typ.)	700:1 (typ.)
Display Color	16.2M	16.2M	16.2M	16.2M
System Specification				
Processor	Intel® Atom N2600 1.6GHz	Intel® Core i5-2557M / i7-2610UE	Intel® ATOM N270 1.6GHz	Intel® Core 2 Duo 1.06GHz
BIOS	AMI System BIOS	AMI 4Mbit Flash	AMI 4Mbit Flash	AMI 4Mbit Flash
System Chipset	Intel® Tigerpoint NM10 Chipset"	Intel® HM67 Express Chipset	Intel® 945GSE + ICH7-M Chipset	Intel® 945GME + ICH7M Chipset
System Memory	1 x SODIMM Max. 4GB DDR3 1066Mhz (Default 1GB)	DDR3 1066Mhz SO-DIMM Slot (MAX to 4GB)	DDR2 SO-DIMM Slot (MAX to 2GB)	DDR2 SO-DIMM Slot (MAX to 2GB)
LAN Controller	Braodcom BCM57780A1KMLG Chip set 10/100/1000 Mbps	10/100/1000 Mbps LAN	10/100/1000 Mbps LAN	10/100/1000 Mbps LAN
Storage	Support 16GB SATA SSD (Max. up to 128GB)	Support 16GB SATA SSD (Max. up to 128GB)	Support 16GB mSATA SSD (Max. up to 128GB)	Support 16GB SATA SSD (Max. up to 128GB)
Audio	Audio out for headset Micro-in for microphone jack 1.5W Speaker (Internal)	Audio out for headset Micro-in for microphone jack 1.5W Speaker (Internal)	Audio out for headset Micro-in for microphone jack 1.5W Speaker (Internal)	Audio out for headset Micro-in for microphone jack 1.5W Speaker (Internal)
Wireless Communication				
WLAN	802.11b/g/n (internal usb module)	802.11b/g/n (internal USB module)	802.11b/g/n (internal USB module)	802.11b/g/n (internal USB module)
Bluetooth	Bluetooth (internal usb module)	Bluetooth2.1+EDR USB Module (internal USB module)	Bluetooth2.1+EDR USB Module (internal USB module)	Bluetooth2.1+EDR USB Module (internal USB module)
WWAN	Built-in 3G module (optional)	Built-in 3G module (optional)	Built-in 3G module (optional)	Built-in 3G module (optional)
GPS	Built-in GPS module	Built-in GPS module	Built-in GPS module	Built-in GPS module
I/O Connectors				
Left I/O Connectors	1 x SIM card slot 1 x Barcode reader(optional)			
Right I/O Connectors	2 x USB 2.0 1 x Audio out Micro-in Jack 1 x Power Input Jack 1 x COM (by RJ45 connector) 1 xLAN. 1x Reset button	2 x USB 2.0, 1 x Mic in, 1 x Line out, 1 x Reset button, 1 x power jack, 1 x LAN	2 x USB 2.0, 1 x Mic in, 1 x Line out, 1 x Reset button, 1 x power jack, 1 x LAN	2 x USB 2.0, 1 x Mic in, 1 x Line out, 1 x Reset button, 1 x power jack, 1 x LAN
Downside I/O Connectors	Docking Connector to expansion for 1 x VGA 4 x USB and Docking Stand Power Input	1 x docking connector	1 x docking connector	1 x docking connector
In front Control				
Control Button	1x Menu Key control Brightness Volume and Battery Status 1x Up Key 1x Down Key 3x Programmable Hotkeys/ Max. 6 Functions	1x Menu Key control Brightness Volume and Battery Status 1x Up Key 1x Down Key 3x Programmable Hotkeys/ Max. 6 Functions	1x Menu Key control Brightness Volume and Battery Status 1x Up Key 1x Down Key 3x Programmable Hotkeys/ Max. 6 Functions	1x Menu Key control Brightness Volume and Battery Status 1x Up Key 1x Down Key 3x Programmable Hotkeys/ Max. 6 Functions
LED indicator	Power On/ Off, Battery, HDD Access, WiFi On/Off	Power On/ Off, Battery, HDD Access, WiFi On/Off	Power On/ Off, Battery, HDD Access, WiFi On/Off	Power On/ Off, Battery, HDD Access, WiFi On/Off
Mechanical and Environment				
Dimensions (W x L x H)	259 x 215 x 45 mm	311 x 232 x 45 mm	311 x 232 x 45 mm	311 x 232 x 52 mm
Net Weight (kg)	2.0 Kg (w/o accessories)	2.5 Kg (estimated)	2.5 Kg (estimated)	3 Kg (estimated)
Operating Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C
IP Proof	IP54	IP54	IP54	IP54
Mounting	VESA mount Vehicle mount	VESA mount Vehicle mount	VESA mount Vehicle mount	VESA mount Vehicle mount
Certifications	CE FCC ClassB	CE FCC ClassB	CE FCC ClassB	CE FCC ClassB
Shock	MIL-STD-810F M516.5	MIL-STD-810F M516.5	MIL-STD-810F M516.5	MIL-STD-810F M516.5
Vibration	MIL-STD-810F M514.5	MIL-STD-810F M514.5	MIL-STD-810F M514.5	MIL-STD-810F M514.5
Drop	MIL-STD-810F M516.5 4ft Free to concrete	MIL-STD-810F M516.5 4ft Free to concrete	MIL-STD-810F M516.5, 4 ft, Free to concrete	2 ft Free to concrete
Power Management				
Power Input	19VDC 50/60Hz 100~240V	19VDC 50/60Hz 100~240V	19VDC 50/60Hz 100~240V	19VDC 50/60Hz 100~240V
Battery	Li-Ion battery 5200mAh Samsung Cell	Li-Ion battery 5200mAh Samsung Cell	Li-Ion battery 5200mAh Samsung Cell	Li-Ion battery 5200mAh Samsung Cell
Battery Mark Ver. 4.0.1 Result	TBD	TBD	4hrs 20min	3hrs 34min

Mobile Computing

Tablet PC

Model	WM-M970D	WM-M700DT4	WM-M700D
Display Specification			
Size	9.7"	7"	7"
Resolution	1024 x 768	1024 x 600	1024 x 600
Brightness	350 cd/m2 (Minimum)	250 typ.	250 typ.
Touch	Projective-capacity touch (4 points)	Projected Capacitive	Projected Capacitive
Contrast Ratio	600:1		
Display Color	6-bit262.144 colors		
System Specification			
Processor	Intel® Atom N2600 1.6GHz	ARM® Cortex™-A9 TI OMAP4430 1.0Ghz	Intel® Atom™ Processor N2600 1.6 GHz
BIOS	Intel®NM10 Chipset		
System Memory	2GB SODIMM DDR3-800	1GB Mobile DDR2	2 GB DDR3 SDRAM (upgradable to 4 GB)
Storage	32GB m-SATA SSD	8GB eMMC	32GB SSD (upgradable to 128 GB SSD)
Audio	1W speaker (Internal)	1.2W Speaker	1.2 W Speaker
Operating System	Windows Embedded Standard 7	Android™ 4.0	Windows 7 (Optional Windows XP)
Wireless Communication			
WLAN	802.11 b / g / n	802.11 b / g / n	802.11 b / g / n
Bluetooth	Bluetooth 2.1	Bluetooth 3.0	2.1+EDR(Class 2)
WWAN	Optional	Optional 3G	Optional 3G
GPS	Optional	Built-in highly accurate GPS module	Optional Neo-6 GPS module
I/O Connectors			
Connectors	1 x 12V DC jack 1 x USB 1 x Line out/Mic in 1 x 30 pin connecter for LAN & HDMI Output	1 x Micro USB OTG 1 x Headset jack 1 x 2.5Ø 5V DC Power Input 1 x SIM Slot 1 x Micro SD Card Slot	1 x USB 2.0 1 x Headset jack 1 x 2.5Ø 12V DC Power Input 1 x SIM Slot 1 x Micro SD Card
Control Button	Power button in right side 1 x MENU Key, 1 x Function key 1 x Volume up, 1 x Volume down		
Mechanical and Environment			
Dimensions (W x L x H)	267 x 210 x 22 mm	212.4 x 132.8 x 25 mm	212.4 x 132.8 x 25 mm (Standard)
Weight (g)	988g	650g	770 g (Standard)
Operating Temperature	0°C ~ 50°C	0°C ~ 50°C	-10°C to 50°C
Operating Humidity	30%~90% (non condensing)	95% RH (non condensing)	95% RH (non condensing)
IP Rating	IP54	IP65	IP65
Certifications	FCC , CE , EN60601-1-1 , EN60601-1-2	CE, FCC	CE, FCC
Power Management			
Power Input	12V DC	5V DC in	12V DC in
Battery	5300mAh battery	3.7V 4540 mAh Li-Poly rechargeable battery	7.4V 2270 mAh Li-Poly rechargeable battery
Battery Operating time	5 hours (test via battery life 4.0)	6~8Hrs Battery Life	6~8Hrs Battery Life
Adapter	100-240 V 50-60 Hz / 12V DC input	15W Adapter	50W Adapter
Field Service Features			
Camera	2 Mega pixel	5.0 Mega pixel	2 Mega pixel

Mobile Computing

Tablet PC

Model		I-ICEPOS	I-ICELOG	I-ICEFIRE 2	I-ICECARE
Display	LCD Size	10.1" TFT LCD	7" TFT	10.4" TFT LCD	7" TFT LCD
	Brightness (cd/m²)	350 cd/m²	400 cd/m²	350 cd/m²	500 cd/m²
	Max. Resolution	1280 x 800 IPS	1024 x 600	1024 x 768 pixels XGA	800 x 480 pixels WVGA
	Viewing Angle	85/85/85/85 Deg	70/75/75/75 Deg.	88/88/88/88 Deg.	60/70/70/70 Deg.
	Touch Screen	Resistive Touch	Projective Capacitive Touch	Resistive Supports Multi-touch and Gesture	Projective Capacitive Touch
	Digitizer	N/A	N/A	256 levels @ full scale Pressure Resolution	N/A
System	CPU	Intel® Atom™ N2800 1.86GHz	TI Sitara AM3715	Intel® Atom™ N2800 1.86GHz	TI Sitara AM3715
	Chipset			Intel® NM10	N/A
	Operating System	Microsoft® Windows Embedded Standard 7	Android 4.0.3	Microsoft® Windows Embedded Standard 7	Android 2.3
	Memory	DDR III 4G on board	DDR2 512MB, 4GB NAND Flash	4GB 1333MHz DDR3	4GB eMMC Flash + 512MB SDRAM
	Storage	Built-in mSATA 8G	MicroSD card slot	mSATA 8G SLC (16GB/32GB optional)	SD Slot
Communication	Wireless LAN	Wi-Fi 802.11b/g/n	Wi-Fi 802.11a/b/g/n	Wi-Fi 802.11b/g/n	Wi-Fi 802.11 b/g
	Bluetooth	Bluetooth V2.1	Bluetooth V2.1 + EDR	Bluetooth V3.0 + EDR (Class II)	Bluetooth 2.1 + EDR
	Modem			GPRS/CDMA/HSDPA (option)	WCDMA/HSDPA
	GPS		GPS w/ internal antenna	Option	GPS w/ internal antenna
Data Collection	Camera	1.3 megapixels CMOS camera	5 megapixels	1.3 megapixels CMOS camera (front) / 3 megapixels CMOS camera (rear)	5 megapixels CMOS camera (rear) / 2 megapixels CMOS camera (front)
	Light Sensor		N/A	N/A	N/A
	Barcode	1D Laser/2D Imager Scan Engine	N/A	1D Laser/2D Imager Scan Engine	1D Laser/2D Imager Scan Engine
	RFID	13.56MHz RFID supports ISO 14443A/B (Mifare, Felica)	900/433 Mhz Option (RFID or ZigBee)	13.56 MHz RFID compliant with ISO 15693 and 14443A /14443B (by customization)	13.56 MHz compliant with ISO/IEC 14443A/B and 18092
Indicators & Buttons	LED Indicators	Battery Charging/Peripheral Device/ Storage/Wireless	System Status / Battery Charging, WiFi / Bluetooth	Power/ Wi-Fi/Bluetooth/ RFID/ Battery Status LED	Charging/Full battery LED (Orange / Green) BT enable / disable LED (Blue) Wi-Fi enable / disable LED (Green) 3.5G enable / disable LED (Green)
	Hot Keys			5-way navigation key Barcode Scanner/ RFID / LED Torch/ Camera/ Wi-Fi/ Bluetooth/ SAS/Function Key	Power on/off switch Reset key 4 x Function keys (Home / Menu / Back / Search)
I/O Interface	USB	2 x USB 2.0		1 x USB 3.0	2 x USB 2.0
	LAN			1 x 10M/100M/1G LAN	1 x 10M/100M LAN
	Audio	1 x 1.5W Speaker 1 x Mic in	1 W Speaker 1 x Mic in	1 x 2W Speaker N/A	1 x 1.5W Speaker 1 x Digital Mic
	LED Torch			1 x LED Torch	N/A
Power	Power Adapter	19V / 2.1A DC	5V / 1A DC	12V @ 5A @ 60W	19V @ 2.1A @ 40W
	Docking Power Adapter			19V@ 4.74A @ 90W	N/A
	Battery	7.4V 7400mAh battery	3.7V 7400mAh battery	Dual 11.1V 1880mAh Li-ion Battery	Dual 11.1V 1880mAh Li-ion Battery
Environment	Operating Temperature	-10°C~50°C	-10°C~50°C	0°C ~ 40°C	-10°C ~ 40°C
	Storage Temperature	-20°C~60°C	-20°C~70°C	-10°C ~ 60°C	-10°C ~ 60°C
	Humidity	5%~95% non-condensing	5%~95% non-condensing	5%~95% non-condensing	5%~95% non-condensing
	Drop Survival	1.0 M	1.2 M	1.0 M	1.2 M
	Environment Protection	IP 54 compliant front panel	IP 64 compliant front panel	IP 64 compliant front panel	IP 64 compliant front panel
	Certification	CE / FCC Class B / FCC ID	CE / FCC / CCC	UL/CE/FCC, Medical-grade Class B	CE / FCC
Physical Characteristics	Dimension(LxWxH)(mm)	290 x 206.5 x 22.5	205 x 133 x 1.9	312 x 242 x 78	248 x 153 x 36
	Weight	TBD	550g	1788g	1000g

Mobile Computing

Handheld Device

Model		I-MODAT-100	I-MODAT-200	I-MODAT-210	I-MODAT-328	I-MODAT-335
Display	LCD Size	3.5" TFT LCD (Sunlight Readable)	3.5" TFT LCD (Sunlight Readable)	3.5" TFT LCD	2.8" TFT LCD	3.5" TFT LCD (Sunlight Readable)
	Brightness (cd/m^2)	190 cd/m^2	250 cd/m^2	375 cd/m^2	240 cd/m^2	190 cd/m^2
	Max Resolution	240(H) x 320(V) QVGA	240(H) x 320(V) QVGA	320(H) x 480(V) HVGA	240(H) x 320(V) QVGA	240(H) x 320(V) QVGA
	Viewing Angle	80/80/80/80 Deg.	80/80/80/80 Deg.	80/58/80/80 Deg.	70/50/70/70 Deg.	80/80/80/80 Deg.
	Touch Screen	4-wire resistive type touch	4-wire resistive type touch	4-wire resistive type touch	4-wire resistive type touch	4-wire resistive type touch
System	CPU	Marvell® PXA 310 624MHz	Samsung® 6410 ARM11 667MHz	TI Sitara AM3715	Marvell® PXA 310 624MHz	Marvell® PXA 310 624MHz
	Operating System	Microsoft® Windows® Mobile 6.5	Microsoft® Windows® Mobile 6.5	Android 2.3	Microsoft® Windows® Mobile 6.5	Microsoft® Windows® Mobile 6.5
	Memory	128MB Flash + 256MB SDRAM	128MB Flash + 128MB SDRAM	4GB eMMC Flash + 512MB SDRAM	256MB Flash + 128 MB SDRAM	256MB Flash + 256MB SDRAM
	Storage	microSD Slot	microSD Slot	microSD Slot	microSD Slot	microSD Slot
Communication	Wi-Fi	Wi-Fi 802.11 b/g	Wi-Fi 802.11b/g	Wi-Fi 802.11 b/g/n	Wi-Fi 802.11 b/g	Wi-Fi 802.11 b/g
	Bluetooth	Bluetooth 2.1 + EDR	Bluetooth 2.1 + EDR	Bluetooth 2.1+EDR	Bluetooth 2.1 + EDR	Bluetooth 2.1+ EDR
	Modem	WCDMA/HSDPA	N/A	WCDMA/HSUPA or GPRS	N/A	WCDMA/HSDPA or GPRS
	GPS	GPS w/internal antenna	N/A	GPS w/internal antenna	N/A	GPS w/internal antenna
Data Collection	RFID	13.56 MHz RFID reader support ISO 15693 and 14443A/ B compliant (option)	N/A	N/A	13.56 MHz RFID reader support ISO 15693 and 14443A/B compliant or ISO 18092 and 14434A/B compliant	13.56 MHz RFID support ISO 15693 and ISO 14443A/B compliant UHF (optional): EPC Global Class1 Gen2 support ISO/IEC 18000-6 Type C and at least 1m reading distance
	Barcode	1D Laser Scan Engine	N/A	N/A	1D/2D imager scan engine	1D Laser/2D imager scan engine
	Camera	3 megapixels CMOS camera with LED flash light	N/A	N/A	3 megapixels CMOS camera with LED flash light	3 megapixels CMOS camera with LED flash light
Indicators & Buttons	LED Indicators	Charging status LED HSDPA status LED	System/Battery charging status LED Wi-Fi/Bluetooth enable/ disable LED	Charging Status LED Wi-Fi / BT enable/disable LED 3.5G or 2.5G enable/disable LED	Charging status LED Wi-Fi / Bluetooth enable/ disable LED	Charging status LED Wi-Fi enable/disable LED 3.5G/2.5G enable/disable LED
	Hot Keys	2 x Barcode key	1 x Rolling Key	1 x Power key 1 x Reset Key 5 x Function Key	2 x Barcode key 1 x Camera key	2 x Barcode key 1 x Camera key
I/O Interface	Audio	1 x Speaker	1 x Speaker	1 x Speaker	1 x Speaker	1 x Speaker
		1 x Headset / Built-in Mic-in	1 x Headset / Built-in Mic-in	1 x Headset / Built-in Mic-in	1 x Headset / Built-in Mic-in	1 x Headset / Built-in Mic-in
	Expansion	16-pin connector (RS232 / battery charging / USB Host / USB Client)	1 x Mini USB Host 1.1/Client	1 x Micro USB Host 1.1 / Client	1 x Mini USB Client 2.0	1 x Mini USB Client 2.0
		2" thermal printer	N/A	N/A	16-pin connector (RS232 / battery charging / USB Host / USB Client)	16-pin connector (RS232 / battery charging / USB Host / USB Client)
		smart card reader support	N/A	N/A	N/A	N/A
		Magnetic Stripe Reader Support	N/A	N/A	N/A	N/A
Power	Power Adapter	Input: VAC:100V ~ 240V Output: 12V/3A	Input: 100 V AC to 240 V AC ~ 50-60Hz 0.2A Output: 5V / 1A	Input : 100 V AC to 240 V AC ~ 50-60 Hz 2.1A Output : 5V / 2.1A	Input: 100V AC to 240V AC ~ 50-60Hz 0.2A Output: 5V / 2.1A	Input : 100V AC to 240V AC ~ 50-60Hz 0.2A Output : 5V / 2.1A
	Battery	7.4V 1880 mAh battery	3.7V 1800 mAh battery (built-in non swappable)	3.7V 1800 mAh battery	3.7V 1880 mAh battery	3.7V 3000 mAh battery
Enviroment	Operating Temperature	0˚C ~ 50˚C	-10˚C ~ 50˚C	-10˚C ~ 50˚C	-10˚C ~ 50˚C	-10˚C ~ 50˚C
	Storage Temperature	-20˚C ~ 70˚C	-20˚C ~ 70˚C	-20˚C ~ 70˚C	-20˚C ~ 60˚C	-20˚C ~ 60˚C
	Humidity	5%~95% non-condensing	5%~95% non-condensing	5%~95% non-condensing	5%~95% non-condensing	5%~90% non-condensing
	Drop Survival	1.2M	1.2M	1.2M	1.5M	1.5M
	Environmental Protection	IP 54 (Front Panel Only)	IP 54	IP64	IP 54 (Front Panel Only)	IP 54
	Certification	CE / FCC	CE / FCC / BSMI	CE / FCC	CE / FCC	CE / FCC
Physical Characteristics	Dimensions (LxWxH) (mm)	230 x 84 x 54	125 x 74 x 18.7	127 x 70 x 16	172 x 55 x 31	218.5 x 81 x 46.2
	Weight	546 g	200 g	197g	245 g	405 g

Mobile Computing

Industrial PDA

Model	WM-S370T	WM-S430T
Size	3.7"	4.3"
Display Specification		
Resolution	480 x 640	480 x 800
Brightness	400 (typ)	270(typ)
Contrast Ratio	1000:1	800:1
Touch	Resistive	Multi-touch Capactive
System Specification		
Processor	Cortex A8 720MHz	Cortex A8 1GHz
System Memory	256MB Mobile DDR RAM	256MB / 512MB Mobile DDR RAM
Storage	512MB Flash Memory	512MB Flash Memory
Operating System	Windows CE 6.0	Android 2.3.4
I/O Connectors		
External I/O	1 x Serial Port (RS-232)	1 x Serial Port (RS-232)
	1 x Mini USB OTG (Mini-A 5pin Female Type)	1 x Mini USB OTG (Mini-A 5pin Female Type)
	1 x 2.5Ø 5V 3A DC Power Input	1 x 2.5Ø 5V 3A DC Power Input
Intenal Audio Device	1 x Microphone (under Keypad)	1 x Microphone (under Keypad)
	1 x 1.2W Speaker (under Keypad)	1 x 1.2W Speaker (under Keypad)
Expansion Slots	SDIO / SDHC card slot (up to 16GB SDHC memory card) x1	SDIO / SDHC card slot (up to 16GB SDHC memory card) x1
Optional I/O	1 x Barcode Reader: 1D/2D Scan Module Support QR Code / Data Matrix /PDF417 / Maxicode / Aztec	1 x Barcode Reader: 1D/2D Scan Module Support QR Code / Data Matrix /PDF417 / Maxicode / Aztec
(Either one)	1 x RFID Reader:Support ANSI/ISO14443A Card Type(13.56 MHz Frequency)	1 x RFID Reader:Support ANSI/ISO14443A Card Type(13.56 MHz Frequency)
In Fornt Control		
Keypad	21-key numeric keypad	10-key numeric keypad
LED indicator	Power status LED ; B, Wireless Function LED ; External Function LED	Power status LED ; B, Wireless Function LED ; External Function LED
Wireless Communication		
WLAN	Support 802.11 2.4GHz b/g/n mode	Support 802.11 2.4GHz b/g/n mode
Bluetooth	2.1+EDR (No audio profile)	2.1+EDR (No audio profile)
WWAN	Optional 3G Module (support HSPA/ UMTS / GPRS / WCDMA / GSM)	Optional 3G Module (support HSPA/ UMTS / GPRS / WCDMA / GSM)
GPS	Built-in SiRF GPS module	Built-in SiRF GPS module
Mechanical and Environment		
Dimensions (W x L x H)	179 x 99 x 38 mm (Standard)	179 x 99 x 38 mm (Standard)
Weight	450g (Standard)	450g (Standard)
Operating Temperature	-20°C to 60°C / -4°F to 140°F	-20°C to 60°C / -4°F to 140°F
Operating Humidity	95% RH, non-condensing	95% RH, non-condensing
IP Proof	IP67	IP67
Shock *	MIL-STD-810F Method 516.5	MIL-STD-810F Method 516.5
Vibration *	MIL-STD-810F Method 514.5	MIL-STD-810F Method 514.5
Drop *	MIL-STD-810F Method 516.5, 4 ft, Free to concrete	MIL-STD-810F Method 516.5, 4 ft, Free to concrete
Certifications	CE, FCC	CE, FCC
Power Management		
Power Input	5V DC in	5V DC in
Power Consumption	10W (under full loading)	10W (under full loading)
Battery	3.7V 5000mAh Li-Poly rechargeable battery	3.7V 5000mAh Li-Poly rechargeable battery
Battery Operating Time	* Low Use Case: 8.6Hr (Backlight at 10% duty cycle,default level,idle mode)	Low Use Case: 8.6Hr (Backlight at 10% duty cycle,default level,idle mode)
Adapter	15W Adapter	15W Adapter
Field Service Features		
Camera	3.0M pixer Camera with LED auxiliary light(Rear Side , with Auto Focus)	3.0M pixer Camera with LED auxiliary light(Rear Side , with Auto Focus)

Mobile Computing

Industrial PDA

Model	WM-E430T	WM-E430M	WM-E430T-B	WM-E430M-B
Size	4.3”		4.3”	
Display Specification				
Resolution	480 x 800		480 x 800	
Brightness	270 (typ)		270 (typ)	
Contrast Ratio	800:1 (typ)		800:1 (typ)	
Touch	Projective Capactive Multi-touch		Projective Capactive Multi-touch	
System Specification				
Processor	Cortex A8 1GHz	ARM 11 600MHz	Cortex A8 1GHz	ARM11 600MHz
System Memory	256/512 MB	512MB	256/512 MB	512MB
Storage	512MB	512MB	512MB	512MB
Operating System	Android 2.3.4/Windows Mobile 6.5 / Windows CE 6.0	Android 2.3.4	Android 2.3.4	Android 2.3.4
I/O Connectors				
Downside I/O	1 x Micro USB		1 x Barcode reader connector (WM-E430T-B)	1 x Micro USB
Internal I/O	1 x SIM card slot		1 x RFID connector (WM-E430T-R)	1 x SIM card slot
	1 x Micro SD card slot		1 x Spectrometer (WM-E430T-S)	1 x Micro SD card slot
In Front Control				
Control Button	1 x Volume +		1 x Volume +	
	1 x Volume +		1 x Volume +	
	1 x Power button		1 x Power button	
	1 x Function		1 x Function	
	4 x Capactive buttons : Home / Menu / ESC / Search functions		4 x Capactive buttons : Home / Menu / ESC / Search functions	
LED indicator	1 x LED indicator		1 x LED indicator	
Wireless Communication				
WLAN	Support 802.11 b/g/n		Support 802.11 b/g/n	
Bluetooth	Bluetooth V2.1		Bluetooth V2.1	
WWAN	Built-in GPS module (optional)		Built-in GPS module (optional)	
GPS	Built-in GPS module		Built-in GPS module	
Barcode Reader	N/A		1D/2D (optional)	
Mechanical and Environment				
Dimensions (W x L x H)	133 x 82 x 24		133 x 82 x 24	
Weight	230g		230g	
Operating Temperature	-20°C ~ 60°C		-20°C ~ 60°C	
Operating Humidity	90% RH, non - condensing		90% RH, non - condensing	
IP Proof	IP67		IP66	
Shock*	Shock MIL-STD-810F Method 516.5		Shock MIL-STD-810F Method 516.5	
Vibration*	Vibration MIL-STD-810F Method 514.5		Vibration MIL-STD-810F Method 514.5	
Drop*	Drop MIL-STD-810F M516.5, 4 ft , Free to concrete		Drop MIL-STD-810F Method 516.5, 4 ft , Free to concrete	
Certifications	CE,FCC		CE,FCC	
Power Management				
Power Input	3.7 V		3.7 V	
Power Consumption	2.5W (under full loading)		2.5W (under full loading)	
Battery	3.7 V 2400mAh Li-poly rechargeable battery		3.7 V 2400mAh Li-poly rechargeable battery	
Battery Operating Time*	Low Use Case:16Hr(Backlight at 10% duty cycle,default level,idle mode)		Low Use Case:16Hr(Backlight at 10% duty cycle,default level,idle mode)	
Adapter	5W 1A Adapter		5W 1A Adapter	
Field service Features				
Light Sensor	Yes		Yes	
Proximity Sensor	Yes		Yes	
Camera	2 Mega-pixel Camera at front side		2 Mega-pixel Camera at front side	
	5 Mega-pixel Camera at rear side		5 Mega-pixel Camera at rear side	

Mobile Computing

In-Vehicle Computing

Model		AD-TREK-753	AD-TREK-722	AD-TREK-723	AD-TREK-303RL	AD-TREK-303RH	AD-TREK-303DH
Processor		Industrial grade Intel Atom XL Z510PT 1.1 GHz (Z520PT 1.3 GHz as option)	TI ARM Cortex-A8 AM3703 800 MHz		-		
Design Compatible Models		-	-		Paired with AD-TREK-510	Paired with AD-TREK-550/ TREK-668	Paired with AD-TREK-550/ TREK-668
OS		WES 2009, WinCE6.0 and Ubuntu Linux 10.04	WinCE6.0 & optional Android 2.3.4		-		
Memory	Size	One 200-pin SODIMM socket, Supports up to 2 GB DDR2 400/533 memory module (WinCE upto 512MB)	On board 256MB Mobile LPDDR		-		
	Module Type	1 x 200-pin SODIMM	On board LPDDR		-		
Storage		1 x external accessible SD slot, 1 x external accessible CF slot	On board NAND type 2GB for boot loader, operating system & customer apps 1 x push-push type SD slot		-		
Display	Size/Type	7" (16:9) TFT LCD	5" TFT LCD	7" TFT LCD	7" (16:9) TFT LCD		
	Max. Resolution	800 x 480	800* 480	800* 480	480 x 234	800 x 480	
	Brightness (cd/ m2)	400 with TS (typical)	350 with TS (typical)	400 with TS (typical)	450 with TS (typical)	400 with TS (typical)	
	Backlight MTBF	50,000 hrs	20,000 hrs		10,000 hrs	50,000 hrs	
Touchscreen	Technology	4-wire resistive type; optional support for sunlight readable feature by AR touch solution	4-wire resistive type		4-wire resistive type		
Brightness Control		2 x hotkeys in front panel; built-in light sensor for auto backlight adjustment	Built-in light sensor for auto backlight adjustment		2 x hotkeys in front panel; built-in light sensor for auto backlight adjustment		Built-in light sensor for auto backlight adjustment
I/O Port		3 x USB host, 2 x RS-232 with DC-out, 1 x RS485, 1 x CAN w/ J1939, 1 x J1708, 4 x isolated DI/DO	2 x USB host, 2 X RS-232, 1 x CAN with J1939 protocol, 2 x DI/DO		36-pin locking type connector (connect to TREK box), power/wake up button		
Audio		Built-in 2 watt speaker 1 x line-in, 1 x line-out, 1 x MIC input	Built-in 2 watt speaker		Built-in 2 watt speaker		2 * 2 watt speaker
Video Input		1 x CVBS	1 x CVBS, 1 x S-video		-		
RF		GPRS : Cinterion MC55i qual-bands CDMA : Sierrawireless MC5728V HSDPA : Sierrawireless MC8790V WLAN: 802.11 b/g/n BT Class 2, Version 2.0+EDR	GPRS : Cinterion TC63i qual-bands CDMA : Sierrawireless MC5728V HSPA+ : Cinterion PH8 BT Class 2, Version 2.0+EDR		-		
Network (LAN)		1 x 10/100/1000 Mbps	-		-		
Power		12V/24V car power design. DC-input 6V ~ 36V with ISO-7637-2, SAE J1113 & E-mark; option to support 48V car power system	12V/24V car power design. DC-input 6V ~ 36V with ISO-7637-2, SAE J1113 & E-mark		12 V +- 5% (Powered by Trek Box)		
Operating Temperature		-30° C ~ 60° C	-20° C ~ 60° C (AD-TREK-722) -30° C ~ 70° C (AD-TREK-723)		-30° C ~ 70° C		
Certifications		CE, FCC, CCC, UL, CB, E-mark	CE, FCC, CCC, UL, CB, E-mark		CE, FCC, CCC, UL, CB, NCC	CE, FCC, CCC, UL, CB	CE, FCC, CCC, UL, CB
Shock/Vibration		MIL-STD-810G, SAE J1455, EN60721-3-5 (5M3)	MIL-STD-810G, SAE J1455, EN60721-3-5 (5M3)		MIL-STD-810G, SAE J1455, EN60721-3-5 (5M3)	MIL-STD-810G, SAE J1455, EN60721-3-5 (5M3)	MIL-STD-810G, SAE J1455, EN60721-3-5 (5M3)
Dimensions (W x H x D)		256 x 161 x 56 mm	165 x 115 x 43 mm (AD-TREK-722) 213 x 145 x 43 mm (AD-TREK-723)		244 x 160 x 41 mm		212.75 x 141.85 x 35 mm
Weight		2.2 kg	0.65 kg (AD-TREK-722)/ 0.85 kg (AD-TREK-723)		0.8 kg		0.76 kg

Mobile Computing

In-Vehicle Computing

Model		AD-TREK-510	AD-TREK-550	AD-TREK-668
Processor		STM STA2062 ARM-based 333 MHz RISC SoC	Industrial grade Intel Atom XL Z510PT 1.1 GHz (Z520PT 1.3 GHz as option)	Intel Atom N2600 1.66 GHz (Dual core)
OS		WinCE 5.0	Win CE 6.0, WES 2009, and Linux (Ubuntu 10.04/2.6.34)	WES7/Win7/Linux Ubuntu 12.04 LTS
Memory		Mobile DDR 128 MB	One 200-pin SODIMM socket, Supports up to 2 GB DDR2 400/533 memory module (WinCE only support upto 512MB)	One 200-pin SODIMM socket, Supports up to 2 GB DDR3 800MHz memory module
Video	CRT	-	1 x VGA output by DB-15 (supports different content with LVDS port)	1 x VGA output by DB-15 (supports different content with LVDS port)
	LVDS	Yes	1 x (supports different content with CRT port)	1 x (supports different content with CRT port)
	Video in	-	2 x composite analog video input ports for real-time rear-view monitor feature (doesn't support video recording)	For surveillance: support up to 12 Video inputs, with 12V/2A power supply for camera , D1 resolution 30 frames per channel per second, 8 audio inputs for recording
I/O Interface	Audio	Mic-in, Line-out, SPK-out	Mic-in, Line-out, SPK-out	Mic-in, Line-out, SPK-out
	Ethernet	-	1 x 10/100/1000 Mbps Ethernet (with LEDs)	1 x PSE LAN 10/100/1000 Mbps, supports POE IP camera ;compliant IEEE 802.3af and provides up to 15.4 watts power output
	USB	2 x USB host ports, 1 x USB client port	4 x USB host ports	4 x USB host ports
	Serial Ports /J1708	2 x full function RS-232 with DC Output, 1 x 4-wire RS-232/485	2 x full function RS-232 with DC Output, 1 x 4-wire RS-232,1 x RS-485, 1x J1708	2 x full function RS-232, (one supports 12V/0.5A via DB9 DC output), 2 x RS-485, 1 x J1708
	DI/O	4 x Isolated dry contact digital inputs and 4 x isolated relay driver output	4 x Isolated dry contact digital inputs and 4 x isolated relay driver output	8 x Isolated dry contact digital inputs and 4 x isolated relay driver output
	CAN	CAN 2.0 A/B (J1939 protocol support)	CAN 2.0 A/B (J1939 protocol support)	CAN 2.0 A/B (J1939 protocol support)
G-sensor		-	Built-in for auto SOS	Built-in for auto SOS
GPS		32-Channel GPS engine embedded in SoC; optional to support uBlox LEA-5S	50-Channel uBlox LEA-6S with AGPS as default; u-blox LEA-6R with AGPS & dead-reckoning feature (built-in Gyro & speed line) as option	50-Channel uBlox LEA-6S with AGPS as default;u-blox LEA-6R with AGPS & dead-reckoning feature (built-in Gyro) as option
RF		GPRS : Cinterion MC55i qual-bands CDMA : Sierrawireless MC5728V HSDPA : Sierrawireless MC8790V/MC8795V	GPRS : Cinterion MC55i qual-bands CDMA : Sierrawireless MC5728V HSDPA : Sierrawireless MC8790V/MC8795V WLAN: 802.11 b/g/n BT Class 2, Version 2.0+EDR	GPRS : Cinterion MC55i qual-bands CDMA : Sierrawireless MC5728V HSDPA : Sierrawireless MC8090 (2 SIM, 2 Mini PCIe slot for WWAN/ WLAN) WLAN: 802.11 b/g/n BT Class 2, Version 2.0+EDR
Storage	On-Board Flash	2 GB on-board flash	-	-
	SD	1 x external-accessible port (for memory mode only)	-	-
	CF	-	1 x external-accessible port (for memory mode only)	1 x external-accessible port (for memory mode only)
	SATA	-	Option to support built-in 2.5" SSD (either solution with CF slot)	2x key-lock protection external accessible 2.5" SATA storage feature. optional to support industrial grade MHD or SSD
Power	Input Voltage	12V/24V car power design. DC-input 6V ~ 36V with ISO-7637-2, SAE J1113 & E-mark	12V/24V car power design. DC-input 6V ~ 36V with ISO-7637-2, SAE J1113 & E-mark	12V/24V car power design. DC-input 9~32V with ISO-7637-2, SAE J1113 E-mark
Operating Temperature		-30° C ~ + 70° C	-30° C ~ + 70° C	-30° C ~ 60° C
Certifications		CE, FCC, CCC, UL, CB, E-mark	CE, FCC, CCC, UL, CB, E-mark	CE, FCC, CCC, UL, CB, E-mark
Shock/Vibration		MIL-STD-810G, SAE J1455, EN60721-3-5 (5M3)	MIL-STD-810G, SAE J1455, EN60721-3-5 (5M3)	MIL-STD-810G, SAE J1455, EN60721-3-5 (5M3)
Dimensions (W x H x D)		261 x 125 x 57 mm	266 x 149 x 68 mm	346 x 97 x 196.2 mm
Weight		1.0 kg	1.2 kg	5.7 kg (including 2 HDD)

Mobile Computing

In-Vehicle Computing

Application 1: eBus Solution

Fully integrated surveillance, in-vehicle signage and e-management

AD-TREK-668

- 4/8/12 analog video input with power, 8 audio in, 30
- frame, D1 resolution, per second, per channel Compression by H.264, MPEG4, MJPEG. One PSE for IP Camera
- 2 x mobile HDD/SSD with SAE J1455, vehicle-grade-shock & vibration
- Rich I/O : CAN (1939), J1708, COMs, isolated DIO, etc.

AD-TREK-303RH

- 7” 16:9 viewing ratio, 800 x 480 resolution, LED-type TFT LCD display
- -30° C to 70° C wide-range temperature support
- Five user-defined function keys, 2 watt speaker, and USB host

Application 2: Delivery Service Solution

24/7 Tracking and Communication

AD-TREK-722/723

- 5”/7” TFT, TI Cortex A8 AM37 w/ WinCE & Android
- -20°C~60°C with ISO 7637-2, SAE J1113, SAE J1455 compliant
- Ignition for suspend/wakeup, 24x7 monitoring mechanism
- 50 channel GPS w/ AGPS, GPRS/CDMA/HSDPA & BT
- Rich IOs for COM, USB, isolated DIOs & audio